

# MAP OF THE TRANS JOGJA BASED MICROCONTROLLER ATmega 32

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## ABSTRACT

Trans Jogja is one means of ground transportation is located in Yogyakarta, which operate using certain routes so as to not raise and lower the passengers. Passengers who will use Trans Jogja should use The already provided on each line. But not every Stop there are means of information that shows the paths traversed, for a while at the bus stop just use a map. So it is not yet able to provide information to its full potential. At the end of the project is the author of designing maps more interactive so that users are more helpful for Trans Jogja. The advantages of Map Trans Jogja Route is to take the map using electronic circuits work simultaneously.

In making a map of The Transjogja-based Microcontroller ATmega 32 consists of several stages, namely: (1) identification of needs, (2) analysis of needs, (3) concept design, (4) and (5) testing. This tool is composed of software and hardware. The software consists of basic language with BASCOM. The hardware using catudaya 5 volt DC system with minimum, ATmega 32 as an indicator LED, LCD, as the Viewer output. This tool works with a voltage of 5 volt supply which flows from the catudaya series minimum system for mensupply LED and LCD. In addition, there are 6 key push button that serves as the command input, while for LCDs and LEDs as outputs. Six buttons on this tool serves as a special line of Trans Jogja that has endured and the menu reset, for Trans Jogja line menu consists of 1A, 1B, 2A, 2B. 3A, 3B. From the menu there is a line that has the same Trans Jogja bus such as line 1A there is a bus stop where the lines of 1B so that there are 64 stops Trans Jogja that has endured.

This tool works as planned, run the command pushbutton, and then processed in the ATmega Microcontroller 32 and issuing output through the LCD and LED indicators. The LCD and LEDS are enabled as a guide line and hints of the existence of the site. With inisemoga Trans Jogja users more easily get information more clear and optimal.

Keywords: ATmega Microcontroller 32, Map the Trans Jogja.